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Tr 8-3B-170-10

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From: Shizen (Nature) 16(2):24-32; 16(3):42-52, Feb.-  
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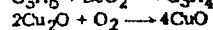
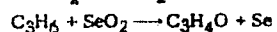
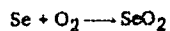
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DESCRIPTORS: \*Propenes, Oxidation, \*Acroleins,  
\*Selenium, \*Copper compounds, Oxides, \*Catalysts,  
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(Chemistry--Organic, TT, v. 7, no. 9)

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Office of Technical Services

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DESCRIPTORS: \*Coke, \*Catalysts, Films, Physical  
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(Chemistry--Physical, TT, v. 10, no. 5)

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Studies on the Neurotoxins Isolated from the  
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BY: Chen-Yuan LEE

FROM: SHOWA IGAKKAI ZASSHI. SHOWA MEDICAL ASSOCIATION  
JOURNAL, V.23, 1963 pp 221-229 (9 pp)

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\*500th MI Sv Gp  
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FK - Japan  
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Summary of Foreign Affairs Police Activities for  
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Full tr

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SPACE OF MATRICES. 1963, 32p 7refs  
Order from AMS in American Mathematical Society  
Translations, 1963, ser. 2, v. 32 (p. 163-194)

Trans. of [Shu Hsiieh Hsiieh Pao] (Chinese People's  
Republic) 1953, v. 2, p. 288-323.

DESCRIPTORS: \*Functions, \*Complex variables,  
\*Matrix algebra, Groups (Mathematics), Determinants,  
Taylor's series.

- I. Hua, Loo-keng
- II. Title: Complete...
- III. American Mathematical  
Society, Providence,  
R. I.

Office of Technical Services

(Mathematics. TT, v. 11, no. 9)

CHINESE MATHEMATICS, 1963, VOL. 3, NO. 4.  
P. 861-884. Sep 63. 17. 84 refs.  
Order from The American Mathematical Society,  
Providence, R. I. \$20.00/vol.

Trans. of [Kuo Hsiang Hsiang Pao] (Chinese People's  
Republic) 1962, v. 12, no. 4 and index v. 12.

DESCRIPTORS: \*Mathematics, \*China, \*Numerical  
analysis, \*Sequences, \*Groups (Mathematics), \*Alge-  
braic topology, \*Boundary value problems, \*Nonlinear  
differential equations, \*Communication theory, \*Num-  
ber theory, \*Inequalities

**Contents:**

Several iterative processes with relatively high rate of  
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1. Title: Shannon theorem  
I. American Mathematical  
Society, Providence, R. I.

Office of Technical Services

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COMPLEX VARIABLES. II. A COMPLEX ORTHO-  
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THE LIE-HYPERSPHERE

M. F. Cheng, tr. 1963, 26p 8refs  
Order from AMS in American Mathematical Society  
Translations, 1963, ser. 2, v. 32 (p. 195-220)

Trans. of [Shu Hsueh Hsueh Pao] (Chinese People's  
Republic) 1955, v. 5, p. 1-25.

DESCRIPTORS: \*Functions, \*Complex variables,  
Groups (Mathematics), Special functions (Mathematics),  
Matrix algebra.

(Mathematics, TT, v. 11, no. 9)

TT-64-12645 (p. 195-220)

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- II. Title: Complex...
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Translations, 1963, ser. 2, v. 33 (p. 47-58)

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DESCRIPTORS: \*Partial differential equations, Differ-  
ential equations, Conformal mapping

(Mathematics, TT, v. 11, no. 8)

TT-64-12646 (p. 47-58)

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- II. American Mathematical  
Society, Providence, R. I.

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Trans. of [Shu Hsüeh Hsüeh Pao] (Chinese People's  
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DESCRIPTORS: \*Functions, \*Complex variables,  
\*Matrix algebra, Groups (Mathematics), Determinants,  
Taylor's series, Harmonic analysis.

(Mathematics, TT, v. 11, no. 9)

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Trans. of 'Shu Hsien Hsien, Rao, (Chinese People's  
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DESCRIPTORS: \*Inequalities, \*Determinants,  
\*Functions, \*Complex variables, \*Matrix algebra.

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Society, Providence,  
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On the Least Primitive Root of a Prime, by  
Wang Yuan.

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~~1960~~, pp 1-14.

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SLA 61-27851

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CHINESE, per, Shu Hsueh Hsueh-pao, Vol IX, No 4, 1959,  
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121 refs.  
Order from OTS or SLA \$10.50

62-13300

DESCRIPTORS: \*Science, Periodicals, China, \*Mathematics, \*Solid state physics, \*Physiology, \*Neurology, \*Anatomy, \*Oceanography, \*Metallurgy.

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On the maximum probability of cyclic random inequalities, by Chang Li-chien, p. 499-504, \$1.10  
Theory of the parametric oscillation of magneto- (Research Methods, Techniques and Equipment, TT, v. 7, no. 1) (over)

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184324

Office of Technical Services

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Order from the American Mathematical Society,  
Providence, R. I. \$20.00/vol.

Trans. of [Shu Hsiieh Hsiieh Pao] (Chinese People's  
Republic) 1962, v. 12, no. 1.

DESCRIPTORS: \*Mathematics, \*China, Differential  
equations, Differential geometry, Fourier analysis,  
Groups (Mathematics), Nonlinear differential equations,  
Partial differential equations, Algebraic topology, Num-  
ber theory, Functional analysis.

Contents:

A qualitative study of the integral curves of a differen-  
tial equation. I, by Yeh-Yen-ch'ien and others  
Fourier analysis on unitary groups. II. Cesaro sums-  
(Mathematics, T.T. v. 10, no. 3) (over)

63-17526-1

1. Title: Cauchy problem
2. Title: Dirichlet problem
1. American Mathematical  
Society, Providence, R. I.

Office of Technical Services

63-17526-2

CHINESE MATHEMATICS, 1963, VOL. 3, NO. 2,  
P. 117-276. May 63, 1v.  
Order from The American Mathematical Society,  
Providence, R. I. \$20.00/vol.

Trans. of [Shu Hsüeh Hsüeh Pao] (Chinese People's  
Republic) 1962, v. 12, no. 2.

DESCRIPTORS: \*Mathematics, \*China, Algebraic  
topology, Groups (Mathematics), Partial differential  
equations, Functions, Nonlinear differential equations,  
Polynomials, Equations, Integral equations, Differential  
equations, Numerical analysis, Mechanics, Trigonome-  
try, Operators (Mathematics), Inequalities.

Contents:

Some properties of the Riemannian spaces  $V_n$  which  
admit an  $n$ -tuply orthogonal system of hypersurfaces,  
by Pui Cheng-kuo  
(Mathematics, 17T, v. 10, no. 3) (over)

1. Title: Divisor problem
1. American Mathematical  
Society, Providence, R. I.

Office of Technical Services

63-17526-4

CHINESE MATHEMATICS, 1963, VOL. 3, NO. 4,  
P. 361-454. Sep 63, 1v. 34 refs.  
Order from The American Mathematical Society,  
Providence, R. I. \$23.00/vol.

Trans. of [Zhu Hsueh Hsueh Pao] (Chinese People's  
Republic) 1962, v. 12, no. 4 and index v. 12.

DESCRIPTORS: \*Mathematics, \*China, \*Numerical  
analysis, \*Sequences, \*Groups (Mathematics), \*Alge-  
braic topology, \*Boundary value problems, \*Nonlinear  
differential equations, \*Communication theory, \*Num-  
ber theory, \*Inequalities

Contents:

Several iterative processes with relatively high rate of  
convergence and a method for estimating the multi-  
plicity of real roots, by Hsi Li-che  
(Mathematics, TT, v. 10, no. 11) (over)

1. Title: Shannon theorem  
1. American Mathematical  
Society, Providence, R. I.

Office of Technical Services

TT-63-22920-1

CHINESE MATHEMATICS, 1963, VOL. 4, NO. 1,  
P. 1-159. Nov 63, 1v.  
Order from the American Mathematical Society,  
Providence, R. I. \$20.00/year

I. American Mathematical  
Society, Providence,  
R. I.

Trans. of [Shu Hsiieh Hsiieh Pao] (Chinese People's  
Republic) 1963, v. 13, no. 1, p. 1-[143].

Separate entries have been prepared for the individual  
articles included in this issue.

DESCRIPTORS: \*Mathematics, \*Periodicals, China,

(Mathematics, TT, v. 11, no. 1)

Office of Technical Services

Wang, Chen-yu.  
ON AN INTERPOLATION PROBLEM OF ENTIRE  
FUNCTIONS, tr. by Yi Chang. Nov 63, 17p 3refs  
Order from the American Mathematical Society,  
Providence, R. I. \$21.00/year in its Chinese Mathe-  
matics, v. 4, no. 1 (p. 1-17)

Trans. of [Shu Huih Hsueh Pao] (Chinese People's  
Republic) 1963, v. 13, no. 1, p. 1-16.

DESCRIPTORS: Mathematics, \*Functions, \*Numerical  
analysis, Complex numbers, Sequences, Number  
theory

(Mathematics, TT, v. 11, no. 1)

TT-63-22920-1 (p. 1-17)

- I. Wang, Chen-yu
- II. American Mathematical  
Society, Providence, R. I.

Office of Technical Services

T'ai, Chih-chung.  
ON DISCRETE VALUATIONS, tr. by Jiang Luh.  
Nov 63, 6p 6refs  
Order from the American Mathematical Society,  
Providence, R. I. \$21.00/year in its Chinese Mathe-  
matics, v. 4, no. 1 (p. 18-23)

Trans. of [Shu Hsueh Hsueh Pao] (Chinese People's  
Republic) 1963, v. 13, no. 1, p. 17-22. (Abstract  
available)

DESCRIPTORS: Mathematics, \*Number theory,  
Algebraic topology

A definition is given of discrete valuation for a general  
valuation which is a natural generalization of the case of  
finite rank. Then under that definition the equivalence  
is shown between completeness and maximality of a  
valuation field with respect to a discrete valuation.  
Also discussed is the Schmidt uniqueness theorem for  
(Mathematics, TT, v. 11, no. 1) (over)

TT-63-29920-1 (p. 18-23)

1. Title: Schmidt uniqueness theorem
1. T'ai, Chih-chung
- II. American Mathematical Society, Providence, R.I.

Office of Technical Services

TT-63-22920-1 (p. 24-30)

Wang, Chin-ju.  
A GRADIENT METHOD FOR FINDING THE EIGEN-  
VALUES AND EIGENVECTORS OF A SELF-ADJOINT  
OPERATOR, tr. by Michael Liu. Nov 63, 7p 7refs  
Order from the American Mathematical Society,  
Providence, R. I. \$21.00/year in its Chinese  
Mathematics, v. 1, no. 1, (p. 24-30)

Trans. of [Shu Hsüeh Hsiieh Pao] (Chinese People's Re-  
public) 1963, v. 13, no. 1, p. 23-28. (Abstract available)

DESCRIPTORS: Mathematics, \*Operators (Mathematics),  
\*Numerical methods and procedures, \*Integral equa-  
tions, \*Matrix algebra, \*Functional analysis,  
Sequences

The sequence  $x_{k+1} = x_k - \frac{2(Ax_k, x_k)}{(Ax_k, Ax_k)} Ax_k$

( $k = 0, 1, 2, \dots$ ) is established, and without assuming  
the complete continuity of  $A$ , the convergence is proved.  
(Mathematics, TT, v. 11, no. 1) (over)

1. Title: Weyl theorem
- I. Wang, Chin-ju
- II. American Mathematical  
Society, Providence, R. I.

Office of Technical Services

Ku, Ch'ao-hao.  
A BOUNDARY VALUE PROBLEM FOR HYPERBOLIC  
SYSTEMS AND ITS APPLICATIONS, tr. by C. K. Chu.  
Nov 63, 19p 6refs  
Order from the American Mathematical Society,  
Providence, R. I. \$21.00/year in its Chinese Mathe-  
matics, v. 4, no. 1 (p. 35-53)

Trans. of [Shu Hsiieh Hsiieh Pao] (Chinese People's  
Republic) 1963, v. 13, no. 1, p. 32-48. (Abstract  
available)

DESCRIPTORS: Mathematics, \*Boundary value prob-  
lems, \*Partial differential equations, Applied mathe-  
matics, Mechanics, Fluid dynamic properties, \*Gas  
flow, Shock waves

In the first part, a study is made of a nonlinear boundary  
value problem for a system of quasilinear hyperbolic  
(Mathematics, TT, v. 11, no. 1) (over)

TT-63-22920-1 (p. 35-53)

- I. Ku, Ch'ao-hao
- II. American Mathematical  
Society, Providence, R. I.

Office of Technical Services

Mangeron, D. and Krivocheine, L. E.  
QUALITATIVE STUDY OF A CLASS OF BOUNDARY  
VALUE PROBLEMS FOR INTEGRO-DIFFERENTIAL  
EQUATIONS AND APPROXIMATE DETERMINATION  
OF THEIR SOLUTIONS, tr. by Y. T. Chou. Nov 63,  
6p 11refs

Order from the American Mathematical Society,  
Providence, R. I. \$21.00/year in its Chinese Mathe-  
matics, v. 4, no. 1 (p. 70-75)

Trans. of [Shu Hsueh Hsueh Pao] (Chinese People's  
Republic) 1963, v. 13, no. 1, p. 53-67. (Abstract  
available)

DESCRIPTORS: Mathematics, \*Boundary value problems,  
\*Integral equations, \*Differential equations, \*Numeri-  
cal analysis

The paper is written for those who are actively engaged  
in finding approximate solutions to ordinary integro-  
(Mathematics, TT, v. 11, no. 1) (over)

TT-63-22920-1 (p. 70-75)

- I. Mangeron, D.
- II. Krivocheine, L. E.
- III. American Mathematical  
Society, Providence, R. I.

Office of Technical Services

Kao, Heng-shan.  
ALGEBRAIC TREATMENT OF THE NOTION OF  
SATISFIABILITY IN THE SYSTEM  $\mathcal{S}_c$ , tr. by  
John D. Hwang. Nov 63, 12p 6refs  
Order from the American Mathematical Society,  
Providence, R. I. \$21.00/year in its Chinese Mathe-  
matics, v. 4, no. 1 (p. 76-87)

Trans. of [Shu Hsueh Hsueh Pao] (Chinese People's  
Republic) 1963, v. 13, no. 1, p. 68-77. (Abstract  
available)

DESCRIPTORS: Mathematics, \*Algebra, \*Mathe-  
matical logic

The purpose of the article is to study a new system  $\mathcal{S}_c$ .  
The system  $\mathcal{S}_c$  is obtained from  $\mathcal{S}_A$  by adding a new  
axiom; it is in fact the Lewis modal calculus  $\mathcal{S}_S$ .  
(Author)  
(Mathematics, PT, v. 11, no. 1)

1. Kao, Heng-shan

II. American Mathematical  
Society, Providence, R. I.

Office of Technical Services

Wu, Chen-te.

**THE NONREDUCIBILITY OF THE OPERATION**

$\mathcal{B}_p^{2^2+\alpha} \dots \mathcal{B}_p^{2^2+\alpha+1} \mathcal{B}_p^{2^2+\alpha}$ , tr. by R. C. Read and  
P. C. Feng. Nov 63, 9p 8refs  
Order from the American Mathematical Society,  
Providence, R. I. \$21.00/year in its Chinese Mathe-  
matics, v. 4, no. 1 (p. 88-96)

Trans. of [Shu Hsieh Hsueh Pao] (Chinese People's  
Republic) 1963, v. 13, no. 1, p. 78-85. (Abstract  
available)

**DESCRIPTORS:** Mathematics, \*Algebraic topology,  
\*Groups (Mathematics), Complex numbers, Mathe-  
matical logic

It is shown that the operation  $\mathcal{B}_2 S_q^{2^1+\alpha+\dots}$   
 $S_q^{2^2+\alpha} S_q^{2^1+\alpha}$  cannot have a nonobvious reduction.  
from this it can be determined whether  $\mathcal{B}_p \mathcal{B}^1$   
(Mathematics, TT, v. 11, no. 1) (over)

TT-63-22920-1 (p. 88-96)

- I. Wu, Chen-te
- II. American Mathematical  
Society, Providence, R. I.

6471

Office of Technical Services

Wu, Li-te.  
ON THE DISTRIBUTIONS OF INTEGRAL FUNCTIONALS OF HOMOGENEOUS DENUMERABLE MARKOV PROCESSES, tr. by Elmer J. Brody. Nov 63, 8p 6refs  
Order from the American Mathematical Society, Providence, R. I. \$21.00/year in its Chinese Mathematics, v. 4, no. 1 (p. 97-104)

Trans. of [Shu Hsueh Hsueh Pao] (Chinese People's Republic) 1963, v. 13, no. 1, p. 86-93.

DESCRIPTORS: Mathematics, \*Statistical processes, \*Statistical functions, \*Integral transforms, Probability

(Mathematics, TT, v. 11, no. 1)

1. Wu, Li-te

II. American Mathematical Society, Providence, R. I.

06478

Office of Technical Services

Tung, Kuang-ch'ang.  
BOUNDARY VALUE PROBLEMS FOR DEGENERATE  
ELLIPTIC PARTIAL DIFFERENTIAL EQUATIONS,  
tr. by Y. M. Chen. Nov 63, 22p 5refs  
Order from the American Mathematical Society,  
Providence, R. I. \$21.00/year in its Chinese Mathe-  
matics, v. 4, no. 1 (p. 105-126)

Trans. of [Shu Hsiieh Hsiieh Pao] (Chinese People's  
Republic) 1963, v. 13, no. 1, p. 94-115. (Abstract  
available)

DESCRIPTORS: Mathematics, \*Boundary value prob-  
lems, \*Partial differential equations

The paper solves a problem posed by A. V. Biczadze;  
i.e., a degenerate elliptic equation has a unique solu-  
tion if the values of the function are prescribed on the  
nondegenerate boundary and bounded values of its de-  
rivative are prescribed on the degenerate boundary.  
(Author)  
(Mathematics, TT, v. 11, no. 1)

TT-63-22920-1 (p. 105-126)

- I. Title: Uniqueness theorem
- I. Tung, Kuang-ch'ang
- II. American Mathematical  
Society, Providence, R. I.

66480  
Office of Technical Services

Ch'eng P'ing

BAYES SEQUENTIAL PROCEDURES WITH K-DECISION ACTIONS FOR THE EXPONENTIAL POLYA TYPE III DISTRIBUTIONS, tr. by H. P. Kuang.

Nov 63, 17p 6refs

Order from the American Mathematical Society, Providence, R. I. \$21.00/year in its Chinese Mathematics, v. 4, no. 1 (p. 131-147)

Trans. of [Shu Hsieh Hsueh Pao] (Chinese People's Republic) 1963, v. 13, no. 1, p. 119-[135]. (Abstract available)

DESCRIPTORS: Mathematics, \*Sequential analysis, \*Statistical distributions, \*Statistical functions, \*Statistical tests

The purpose of the paper is to extend the result of the Bayes sequential decision procedures to the case of a finite number of elements under the condition that (Mathematics, TT, v. 11, no. 1) (over)

TT-63-22920-1 (p. 131-147)

1. Title: Bayes's solution
- I. Ch'eng P'ing
- II. American Mathematical Society, Providence, R. I.

Office of Technical Services

Some Investigations in Mathematical  
Logic, by Mo Shao K'uei, 51 pp.  
CHINESE, per, Shu Hsueh Hsueh Pao  
(Acta Mathematica Sinica), Vol XIII,  
No 4, 1963, pp 485-507. 9699049  
FTD-TT-64-829

Sci - Math & Data Proc  
Feb 66

296,367

The Dirichlet Problem of a System of  
Degenerating Elliptic Type Equations,  
by Ch'ing-Yu Chang, 13 pp.

CHINESE, per, Shu Hsueh Hsueh Pao  
(Acta Mathematica Sinica), Vol 11,  
No 3, 1964, pp 379-386  
P100203468-v  
FTD-HT-67-338

Sci-Physics  
Sep 68

364,168

Concerning Certain Properties and the Limit  
Theorem of a Simple Function of the ITO Random  
Integral, by Chia-kang Wang. 22 pp.  
CHINESE, per, Shu Hsueh Hsueh Pao (Acta  
Mathematica Sinica), Vol 14, No 4, 1954,  
pp 517-531. P100188187  
FTD-HT-66-607

Sci/Math  
Aug 67

333,033

( SF-1102 )

Opinions on the Goals and Mission of Middle School  
Mathematics, by Pien Shu-yang, Ts'ao Tso-yu, Shen  
Hai-yung, 6 pp.

CHINESE, per, Shu-hsueh T'ung-pao, No 1, 1960,  
pp 38-40.

JPRS 4465

FE - China

Soc - Education

Mar 61

143,623

( SP-1102 )

Discussion on the Problem of Correlating Middle  
School and College Mathematics, 7 pp.

CHINESE, per, Sun-hsueh T'ung-pao, No 3, 1960,  
pp 35-37.

JPRS 4465

FE - China

Soc - Education

143,624

Mar 61

Mathematical Problems of Launching Rockets,  
by Lai Yao-ch'iu, 7 pp.  
CHINESE, per, Shu-hsueh T'ung-pao, No 7, 8  
July 1964, pp 46-49.  
JPRS 28677

FE-China  
Sci-Math  
Feb 65

275,237

Mathematical Theory of Rocket Flight,  
by Yeh Chih-chiang, 15 pp.  
CHINESE, per, Shu-hsueh T'ung-pao, No 8, 1964,  
pp 38-43.  
JPRS 28198

Sci - Aero  
Feb 65

272,675

Geographic Information on Kiangsu Province, ( Wk  
Info Rpt on Com China 172) 3 pp

CHINESE, monograph, Stai-hsiang Chiang-su, Shanghai,  
Dec 1956, pp 1-40.

*Very brief Summary*

CIA/FDD Sum 1533

53, 643

FE - China  
Pol  
Geo -  
Oct 57

Economic Geography of Kiangsu Province. (Wk Info  
Rpt on Com China 172)

CHINESE, monograph, ~~Shui-hsiang Chiang-su~~ (Kiangsu,  
the Land of Water), Shanghai, Dec 1956, pp 41-92.

CIA/FIN) Sum 1541

FE - China  
Econ -  
Geo  
Oct 57

54,233  
*very brief summary*

KIANGSU -- THE WATER COUNTRY, BY WANG WEI-  
PING, 98 PP.

CHINESE, BK, SHUI-HSIANG CHIANG-SU, SHANGHAI,  
DEC 1956, 92 PP.

JPRS 16910

FE -- CHINA  
GEOG  
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